Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 07-03-2007G

DETAIL-A

DRW.11-01 OC13S,13M, SINGLE CIRCUIT, VERTICAL CONFIGURATION
INTERMEDIATE STRUCTURE, 0°-5°

ALL DIMENSIONS ARE IN MILLIMETER

Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 07-03-2007G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
03	3	Horizontal Insulator Mounting Bracket	20-SDMS-02	Fig. 8
04	1	Earthwire Support Assembly	20-SDMS-02	Fig. 06
05	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW, MERLIN	20-SDMS-02	Fig. 38
06	1 Set	Preformed Armour Rods for 67.44mm2 ACSR/AW, QUAIL	20-SDMS-02	Fig. 38
07	3 Set	Preformed Line Post Insulator Side Tie For Merlin With Armour	20-SDMS-02	Fig. 36
08	3	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
10	1	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	1	Danger Sign Plate	20-SDMS-02	Fig. 49
12	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
13	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
14	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
15	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
16	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
17	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
		170.5mm2 ACSR/AW, MERLIN		

DRW.11-01A OC13S, 13M, S.C. VERT. CONFIG. INTERMEDIATE STRUCTURE, 0°-5°

Saudi Electricity Company الشركة السعودية للكهرباء

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Dated: 07-03-2007G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
03	3	Horizontal Insulator Mounting Bracket	20-SDMS-02	Fig. 8
04	1	Earthwire Support Assembly	20-SDMS-02	Fig. 06
05	3 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW, QUAIL	20-SDMS-02	Fig. 38
06	1 Set	Preformed Armour Rods for 67.44mm2 ACSR/AW, QUAIL	20-SDMS-02	Fig. 38
07	3 Set	Preformed Line Post Insulator Side Tie For Quail With Armour	20-SDMS-02	Fig. 36
08	3	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
10	1	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	1	Danger Sign Plate	20-SDMS-02	Fig. 49
12	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
13	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
14	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
15	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
16	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
17	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
		67.44mm2 ACSR/AW, QUAIL		

DRW.11-01B OC13S, 13M, S.C. VERT. CONFIG., INTERMEDIATE STRUCTURE, 0°-5°

Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 07-03-2007G

100
250
250
1200
950
250
1200
950
250
300
1100
850

DETAIL-A

DETAIL-A

DRW.11-02 OC13S, 13M, SINGLE CIRCUIT, VERTICAL CONFIGURATION
LIGHT ANGLE STRUCTURE, 6°-15° WITH STAY

ALL DIMENSIONS ARE IN MILLIMETER

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SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 07-03-2007G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S - 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
03	3	Horizontal Insulator Mounting Bracket	20-SDMS-02	Fig. 8
04	1	Earthwire Support Assembly	20-SDMS-02	Fig. 06
05	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW, MERLIN	20-SDMS-02	Fig. 38
06	1 Set	Preformed Armour Rods for 67.44mm2 ACSR/AW, QUAIL	20-SDMS-02	Fig. 38
07	3 Set	Preformed Line Post Insulator Side Tie For Merlin With Armour	20-SDMS-02	Fig. 36
08	3	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
10	1	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	1 Set	Vertical Config. Two Stay Assembly with 19mm Dia Turn Buckle	20-SDMS-02	Drw. 301
12	27M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
13	1	Danger Sign Plate	20-SDMS-02	Fig. 49
14	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
15	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
16	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
17	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
18	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
19	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.11-02A OC13S, 13M, S.C. VERT. CONFIG. LIGHT ANGLE STRUCTURE 6°-15° WITH STAY

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SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 07-03-2007G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S – 13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
03	3	Horizontal Insulator Mounting Bracket	20-SDMS-02	Fig. 8
04	1	Earthwire Support Assembly	20-SDMS-02	Fig. 06
05	3 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW, QUAIL	20-SDMS-02	Fig. 38
06	1 Set	Preformed Armour Rods for 67.44mm2 ACSR/AW, QUAIL	20-SDMS-02	Fig. 38
07	3 Set	Preformed Line Post Insulator Side Tie For Quail With Armour	20-SDMS-02	Fig. 36
08	3	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
10	1	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	1 Set	Vertical Config. Two Stay Assembly with 19mm Dia Turn Buckle	20-SDMS-02	Drw. 301
12	27M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
13	1	Danger Sign Plate	20-SDMS-02	Fig. 49
14	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
15	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
16	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
17	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
18	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
19	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.11-02B OC13S, 13M, S.C. VERT. CONFIG. LIGHT ANGLE STRUCTURE 6°-15° WITH STAY

DRW.11-03 OC13S, 13M, SINGLE CIRCUIT, VERTICAL CONFIGURATION
MEDIUM & HEAVY ANGLE STRUCTURE 16°-90° WITH STAYS

ALL DIMENSIONS ARE IN MILLIMETER

Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 07-03-2007G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	4	Earth Wire Suspension Support	20-SDMS-02	Fig. 5
03	3 Set	Suspension Insulator	15-SDMS-01	Page 23
04	3	Parallel Groove Clamp,Three Bolts type for Merlin ACSR/AW	20-SDMS-02	Fig. 39
05	1	Parallel Groove Clamp,Two Bolts type for Merlin ACSR/AW	20-SDMS-02	Fig. 39
06	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
07	1	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	1	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
10	3	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
11	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
12	4	Anchor Shackle	20-SDMS-02	Fig. 20
13	1 Set	Vertical Config. Two Stay Assembly with 19mm Dia Turn Buckle	20-SDMS-02	Drw. 304
14	27M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
15	1	Danger Sign Plate	20-SDMS-02	Fig. 49
16	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
17	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
18	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
19	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
20	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
21	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.11-03A OC13S, 13M, S.C. VERT. CONFIG. MEDIUM & HEAVY ANGLE STRUCTURE WITH STAY 16°-90° FOR MERLIN MAIN & MERLIN TAP

Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 07-03-2007G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	4	Earth Wire Suspension Support	20-SDMS-02	Fig. 5
03	3 Set	Suspension Insulator	15-SDMS-01	Page 23
04	3	Parallel Groove Clamp,Three Bolts type for Merlin ACSR/AW	20-SDMS-02	Fig. 39
05	1	Parallel Groove Clamp,Two Bolts type for Merlin ACSR/AW	20-SDMS-02	Fig. 39
06	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
07	1	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	1	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
10	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
11	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
12	4	Anchor Shackle	20-SDMS-02	Fig. 20
13	1 Set	Vertical Config. Two Stay Assembly with 19mm Dia Turn Buckle	20-SDMS-02	Drw. 304
14	27M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
15	1	Danger Sign Plate	20-SDMS-02	Fig. 49
16	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
17	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
18	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
19	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
20	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
21	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.11-03B OC13S,13M, S.C. VERT. CONFIG. MEDIUM & HEAVY ANGLE STRUC. WITH STAY 16°-90° FOR QUAIL MAIN & QUAIL TAP

DRW.11-04 OC13S, 13M, SINGLE CIRCUIT, VERTICAL CONFIGURATION TERMINAL STRUCTURE WITH STAYS

ALL DIMENSIONS ARE IN MILLIMETER

Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 07-03-2007G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	4	Earth Wire Suspension Support	20-SDMS-02	Fig. 5
03	3 Set	Suspension Insulator	15-SDMS-01	Page 23
04	3	Parallel Groove Clamp. Three Bolts type for Merlin ACSR/AW	20-SDMS-02	Fig. 39
05	1	Parallel Groove Clamp. Two Bolts type for Quail ACSR/AW	20-SDMS-02	Fig. 39
06	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
07	1	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	1	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
10	3	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
11	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
12	4	Anchor Shackle	20-SDMS-02	Fig. 20
13	1 Set	Vertical Config. Two Stay Assembly with 19mm Dia Turn Buckle	20-SDMS-02	Drw. 304
14	27M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
15	1	Danger Sign Plate	20-SDMS-02	Fig. 49
16	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
17	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
18	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
19	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
20	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
21	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.11-04A OC13S, 13M, S.C. VERT. CONFIG. TERMINAL STRUCTURE WITH STAY FOR MERLIN MAIN & MERLIN TAP

Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 07-03-2007G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC13S-13 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	4	Earth Wire Suspension Support	20-SDMS-02	Fig. 5
03	6 Set	Suspension Insulator	15-SDMS-01	Page 23
04	3	Parallel Groove Clamp. Three Bolts type for Quail ACSR/AW	20-SDMS-02	Fig. 39
05	1	Parallel Groove Clamp. Two Bolts type for Quail ACSR/AW	20-SDMS-02	Fig. 39
06	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
07	1	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	1	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
10	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
11	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
12	4	Anchor Shackle	20-SDMS-02	Fig. 20
13	1 Set	Vertical Config. Two Stay Assembly with 19mm Dia Turn Buckle	20-SDMS-02	Drw. 304
14	27M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
15	1	Danger Sign Plate	20-SDMS-02	Fig. 49
16	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
17	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
18	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
19	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
20	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
21	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.11-04B OC13S, 13M, S.C. VERT. CONFIG. TERMINAL STRUCTURE WITH STAY FOR QUAIL MAIN & QUAIL TAP

100
250
1200
950
250
1200
950
250
1150
900
DETAIL-A

DETAIL-A

DRW.11-05 OC14S,14M, SINGLE CIRCUIT, VERTICAL CONFIGURATION
INTERMEDIATE STRUCTURE, 0°-5°

ALL DIMENSIONS ARE IN MILLIMETER

Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS	SDCS-01
	Dated: 07-03-2007G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
03	3	Horizontal Insulator Mounting Bracket	20-SDMS-02	Fig. 8
04	1	Earthwire Support Assembly	20-SDMS-02	Fig. 06
05	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW, MERLIN	20-SDMS-02	Fig. 38
06	1 Set	Preformed Armour Rods for 67.44mm2 ACSR/AW, QUAIL	20-SDMS-02	Fig. 38
07	3 Set	Preformed Line Post Insulator Side Tie For Merlin With Armour	20-SDMS-02	Fig. 36
08	3	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
10	1	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	1	Danger Sign Plate	20-SDMS-02	Fig. 49
12	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
13	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
14	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
15	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
16	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
17	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
		170.5mm2 ACSR/AW, MERLIN		

DRW.11-05A OC14S, 14M, S.C. VERT. CONFIG. INTERMEDIATE STRUCTURE, 0°-5°

Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS−01

Dated: 07−03−2007G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S − 14 Meter Steel Pole, HDG, Single Circuit	20−SDMS−01	Page 35
02	3	Line Post Insulator	15−SDMS−01	Clause 4.2.8
03	3	Horizontal Insulator Mounting Bracket	20−SDMS−02	Fig. 8
04	1	Earthwire Support Assembly	20−SDMS−02	Fig. 06
05	3 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW, QUAIL	20−SDMS−02	Fig. 38
06	1 Set	Preformed Armour Rods for 67.44mm2 ACSR/AW, QUAIL	20−SDMS−02	Fig. 38
07	3 Set	Preformed Line Post Insulator Side Tie For Quail With Armour	20−SDMS−02	Fig. 36
08	3	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20−SDMS−02	Fig. 15
09	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20−SDMS−02	Fig. 15
10	1	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20−SDMS−02	Fig. 15
11	1	Danger Sign Plate	20−SDMS−02	Fig. 49
12	1	Danger Sign Mounting Bracket	20−SDMS−02	Fig. 50
13	10M	Anti−Climbing Device, Barbed Wire	20−SDMS−02	Fig. 13
14	2	Buckle Type, Locking Clip for Barbed Wire	20−SDMS−02	Fig. 13A
15	1	Pole Numbering Plate	20−SDMS−02	Fig. 51
16	1.4M	Stainless Steel Strap	20−SDMS−02	Fig. 55
17	2	Stainless Steel Buckle Locking Clamp	20−SDMS−02	Fig. 55A
		67.44mm2 ACSR/AW, QUAIL		

DRW.11−05B OC14S, 14M, S.C. VERT. CONFIG., INTERMEDIATE STRUCTURE, 0°−5°

DETAIL-A

DRW.11-06 OC14S, 14M, SINGLE CIRCUIT, VERTICAL CONFIGURATION
LIGHT ANGLE STRUCTURE, 6°-15° WITH STAY

ALL DIMENSIONS ARE IN MILLIMETER

Saudi Electricity Company الشركة السعودية للكهرباء

SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 07-03-2007G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
03	3	Horizontal Insulator Mounting Bracket	20-SDMS-02	Fig. 8
04	1	Earthwire Support Assembly	20-SDMS-02	Fig. 06
05	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW, MERLIN	20-SDMS-02	Fig. 38
06	1 Set	Preformed Armour Rods for 67.44mm2 ACSR/AW, QUAIL	20-SDMS-02	Fig. 38
07	3 Set	Preformed Line Post Insulator Side Tie For Merlin With Armour	20-SDMS-02	Fig. 36
08	3	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
10	1	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	1 Set	Vertical Config. Two Stay Assembly with 19mm Dia Turn Buckle	20-SDMS-02	Drw. 301
12	29M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
13	1	Danger Sign Plate	20-SDMS-02	Fig. 49
14	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
15	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
16	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
17	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
18	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
19	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.11-06A OC14S, 14M, S.C. VERT. CONFIG. LIGHT ANGLE STRUCTURE 6°-15° WITH STAY

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SEC DISTRIBUTION CONSTRUCTION STANDARDS

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Dated: 07-03-2007G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
03	3	Horizontal Insulator Mounting Bracket	20-SDMS-02	Fig. 8
04	1	Earthwire Support Assembly	20-SDMS-02	Fig. 06
05	3 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW, QUAIL	20-SDMS-02	Fig. 38
06	1 Set	Preformed Armour Rods for 67.44mm2 ACSR/AW, QUAIL	20-SDMS-02	Fig. 38
07	3 Set	Preformed Line Post Insulator Side Tie For Quail With Armour	20-SDMS-02	Fig. 36
08	3	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
10	1	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	1 Set	Vertical Config. Two Stay Assembly with 19mm Dia Turn Buckle	20-SDMS-02	Drw. 301
12	29M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
13	1	Danger Sign Plate	20-SDMS-02	Fig. 49
14	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
15	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
16	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
17	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
18	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
19	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.11-06B OC14S, 14M, S.C. VERT. CONFIG. LIGHT ANGLE STRUCTURE 6°-15° WITH STAY

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DRW.11-07 OC14S, 14M, SINGLE CIRCUIT, VERTICAL CONFIGURATION
MEDIUM & HEAVY ANGLE STRUCTURE 16°-90° WITH STAYS

ALL DIMENSIONS ARE IN MILLIMETER

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	4	Earth Wire Suspension Support	20-SDMS-02	Fig. 5
03	6 Set	Suspension Insulator	15-SDMS-01	Page 23
04	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
05	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
06	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
07	1	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	1	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
10	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
11	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
12	8	Anchor Shackle	20-SDMS-02	Fig. 20
13	1 Set	Vertical Config. Two Stay Assembly with 19mm Dia Turn Buckle	20-SDMS-02	Drw. 304
14	29M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
15	1	Danger Sign Plate	20-SDMS-02	Fig. 49
16	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
17	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
18	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
19	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
20	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
21	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.11-07A OC14S, 14M, S.C. VERT. CONFIG. MEDIUM & HEAVY ANGLE STRUCTURE WITH STAY 16°-90° FOR MERLIN MAIN & MERLIN TAP

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	4	Earth Wire Suspension Support	20-SDMS-02	Fig. 5
03	6 Set	Suspension Insulator	15-SDMS-01	Page 23
04	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
05	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
06	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
07	1	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	1	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
10	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
11	6	Clevis Eye Extension	20-SDMS-02	Fig. 21
12	8	Anchor Shackle	20-SDMS-02	Fig. 20
13	1 Set	Vertical Config. Two Stay Assembly with 19mm Dia Turn Buckle	20-SDMS-02	Drw. 304
14	29M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
15	1	Danger Sign Plate	20-SDMS-02	Fig. 49
16	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
17	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
18	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
19	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
20	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
21	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.11-07B OC14S,14M, S.C. VERT. CONFIG. MEDIUM & HEAVY ANGLE STRUC. WITH STAY 16°-90° FOR QUAIL MAIN & QUAIL TAP

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DRW.11-08 OC14S, 14M, SINGLE CIRCUIT, VERTICAL CONFIGURATION TERMINAL STRUCTURE WITH STAYS

ALL DIMENSIONS ARE IN MILLIMETER

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Dated: 07-03-2007G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	4	Earth Wire Suspension Support	20-SDMS-02	Fig. 5
03	3 Set	Suspension Insulator	15-SDMS-01	Page 23
04	3	Parallel Groove Clamp. Three Bolts type for Merlin ACSR/AW	20-SDMS-02	Fig. 39
05	1	Parallel Groove Clamp. Two Bolts type for Quail ACSR/AW	20-SDMS-02	Fig. 39
06	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
07	1	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	1	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
10	3	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
11	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
12	4	Anchor Shackle	20-SDMS-02	Fig. 20
13	1 Set	Vertical Config. Two Stay Assembly with 19mm Dia Turn Buckle	20-SDMS-02	Drw. 304
14	29M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
15	1	Danger Sign Plate	20-SDMS-02	Fig. 49
16	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
17	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
18	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
19	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
20	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
21	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.11-08A OC14S, 14M, S.C. VERT. CONFIG. TERMINAL STRUCTURE WITH STAY FOR MERLIN MAIN & MERLIN TAP

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Dated: 07-03-2007G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	4	Earth Wire Suspension Support	20-SDMS-02	Fig. 5
03	3 Set	Suspension Insulator	15-SDMS-01	Page 23
04	3	Parallel Groove Clamp. Three Bolts type for Quail ACSR/AW	20-SDMS-02	Fig. 39
05	1	Parallel Groove Clamp. Two Bolts type for Quail ACSR/AW	20-SDMS-02	Fig. 39
06	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
07	1	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	1	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	1	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
10	3	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
11	3	Clevis Eye Extension	20-SDMS-02	Fig. 21
12	4	Anchor Shackle	20-SDMS-02	Fig. 20
13	1 Set	Vertical Config. Two Stay Assembly with 19mm Dia Turn Buckle	20-SDMS-02	Drw. 304
14	29M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
15	1	Danger Sign Plate	20-SDMS-02	Fig. 49
16	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
17	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
18	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
19	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
20	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
21	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.11-08B OC14S, 14M, S.C. VERT. CONFIG. TERMINAL STRUCTURE WITH STAY FOR QUAIL MAIN & QUAIL TAP

DRW.11-09 OC14S,14M, SINGLE CIRCUIT, VERTICAL CONFIGURATION OF COMPOSITE INTERMEDIATE STRUCTURE, 0°-5°

ALL DIMENSIONS ARE IN MILLIMETER

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
03	3	Horizontal Insulator Mounting Bracket	20-SDMS-02	Fig. 8
04	2	Earthwire Support Assembly	20-SDMS-02	Fig. 06
05	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW, MERLIN	20-SDMS-02	Fig. 38
06	1 Set	Preformed Armour Rods for 67.44mm2 ACSR/AW, QUAIL	20-SDMS-02	Fig. 38
07	3 Set	Preformed Line Post Insulator Side Tie For Merlin With Armour	20-SDMS-02	Fig. 36
08	3	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	2	Cable Tie	20-SDMS-02	Fig. 63
12	1	Danger Sign Plate	20-SDMS-02	Fig. 49
13	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
14	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
15	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
16	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
17	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
18	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
		170.5mm2 ACSR/AW, MERLIN		

DRW.11-09A OC14S, 14M, S.C. VERTICAL CONFIGURATION OF COMPOSITE INTERMEDIATE STRUCTURE, 0°-5°

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
03	3	Horizontal Insulator Mounting Bracket	20-SDMS-02	Fig. 8
04	2	Earthwire Support Assembly	20-SDMS-02	Fig. 06
05	3 Set	Preformed Armour Rods For 67.44mm2 ACSR/AW, QUAIL	20-SDMS-02	Fig. 38
06	1 Set	Preformed Armour Rods for 67.44mm2 ACSR/AW, QUAIL	20-SDMS-02	Fig. 38
07	3 Set	Preformed Line Post Insulator Side Tie For Quail With Armour	20-SDMS-02	Fig. 36
08	3	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	2	Cable Tie	20-SDMS-02	Fig. 63
12	1	Danger Sign Plate	20-SDMS-02	Fig. 49
13	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
14	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
15	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
16	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
17	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
18	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
		67.44mm2 ACSR/AW, QUAIL		

DRW.11-09B OC14S, 14M, S.C. VERTICAL CONFIGURATION OF COMPOSITE INTERMEDIATE STRUCTURE, 0°-5°

DETAIL-A

DRW.11-10 OC14S, 14M, SINGLE CIRCUIT, VERTICAL CONFIGURATION OF COMPOSITE LIGHT ANGLE STRUCTURE, 6°-15° WITH STAY

ALL DIMENSIONS ARE IN MILLIMETER

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
03	3	Horizontal Insulator Mounting Bracket	20-SDMS-02	Fig. 8
04	2	Earthwire Support Assembly	20-SDMS-02	Fig. 06
05	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW, MERLIN	20-SDMS-02	Fig. 38
06	1 Set	Preformed Armour Rods for 67.44mm2 ACSR/AW, QUAIL	20-SDMS-02	Fig. 38
07	3 Set	Preformed Line Post Insulator Side Tie For Merlin With Armour	20-SDMS-02	Fig. 36
08	3	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	2	Cable Tie		
12	1 Set	Vertical Config. of composite Three Stay Assembly	20-SDMS-02	Drw. 301
13	29M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
14	11M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel UTS 65kN (Min.)		
15	1	Danger Sign Plate	20-SDMS-02	Fig. 49
16	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
17	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
18	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
19	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
20	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
21	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
		170.5mm2 ACSR/AW, MERLIN		

DRW.11-10A OC14S, 14M, S.C. VERTICAL CONFIGURATION OF COMPOSITE LIGHT ANGLE STRUCTURE 6°-15° WITH STAY

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SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S – 14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	3	Line Post Insulator	15-SDMS-01	Clause 4.2.8
03	3	Horizontal Insulator Mounting Bracket	20-SDMS-02	Fig. 8
04	2	Earthwire Support Assembly	20-SDMS-02	Fig. 06
05	3 Set	Preformed Armour Rods For 170.5mm2 ACSR/AW, QUAIL	20-SDMS-02	Fig. 38
06	1 Set	Preformed Armour Rods for 67.44mm2 ACSR/AW, QUAIL	20-SDMS-02	Fig. 38
07	3 Set	Preformed Line Post Insulator Side Tie For Quail With Armour	20-SDMS-02	Fig. 36
08	3	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	3	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
10	2	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
11	2	Cable Tie		
12	1 Set	Vertical Config. of composite Three Stay Assembly	20-SDMS-02	Drw. 301
13	29M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)		
14	11M	Stay Wire 7/3.25, 9.8mm Dia. HDG Steel UTS 65kN (Min.)		
15	1	Danger Sign Plate	20-SDMS-02	Fig. 49
16	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 50
17	10M	Anti-Climbing Device, Barbed Wire	20-SDMS-02	Fig. 13
18	2	Buckle Type, Locking Clip for Barbed Wire	20-SDMS-02	Fig. 13A
19	1.4M	Stainless Steel Strap	20-SDMS-02	Fig. 55
20	2	Stainless Steel Buckle Locking Clamp	20-SDMS-02	Fig. 55A
21	1	Pole Numbering Plate	20-SDMS-02	Fig. 51
		67.44mm2 ACSR/AW, QUAIL		

DRW.11-10B OC14S, 14M, S.C. VERTICAL CONFIGURATION OF COMPOSITE LIGHT ANGLE STRUCTURE 6°-15° WITH STAY

DRW.11-11 OC14S, 14M, SINGLE CIRCUIT, VERTICAL CONFIGURATION OF COMPOSITE MEDIUM & HEAVY ANGLE STRUCTURE 16°-90° WITH STAYS

ALL DIMENSIONS ARE IN MILLIMETER

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Dated: 07-03-2007G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	5	Earth Wire Suspension Support	20-SDMS-02	Fig. 5
03	6 Set	Suspension Insulator	15-SDMS-01	Page 23
04	3	Parallel Groove Comp. Connector for 170.5mm2 ACSR/AW (Merlin)	20-SDMS-02	Fig. 39
05	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
06	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
07	1	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
10	6	Strain Clamp, 3 U-Bolts Type for Merlin	20-SDMS-02	Fig. 29
11	2	Strain Clamp, straight line Deadend type for Quadruplex Messenger	20-SDMS-02	Fig. 21
12	6	Clevis Eye Extension	20-SDMS-02	Fig. 20
13	10	Anchor Shackle	20-SDMS-02	Drw. 304
14	2	Cable Tie		
15	4	Parallel Groove Comp. Connector for 120mm Quadraplex Messenger	20-SDMS-02	Fig. 49
16	3	Insulating Cap for Quadraplex Messenger	20-SDMS-02	Fig. 50
17	1 Set	Vertical Config. of composite Three Stay Assembly	20-SDMS-02	Fig. 55
18	29M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)	20-SDMS-02	Fig. 55A
19	11M	Stay Wire 7/3-25, 9.8mm Dia. HDG Steel UTS 65kN (Min.)	20-SDMS-02	Fig. 13
20	1	Danger Sign Plate	20-SDMS-02	Fig. 13A
21	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 51
22	1.4M	Stainless Steel Strap		
23	2	Stainless Steel Buckle Locking Clamp		
24	10M	Anti-Climbing Device, Barbed Wire		
25	2	Buckle Type, Locking Clip for Barbed Wire		
26	1	Pole Numbering Plate		
		170.5mm2 ACSR/AW, MERLIN		

DRW.11-11A OC14S, 14M, S.C. VERT. CONFIG.OF COMPOSITE MEDIUM & HEAVY ANGLE STRUCTURE WITH STAY 16°-90° FOR MERLIN MAIN & MERLIN TAP

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SEC DISTRIBUTION CONSTRUCTION STANDARDS

SDCS-01

Dated: 07-03-2007G

SERIAL NO.	QTY	BILL OF MATERIALS DESCRIPTION	REFERENCES	
01	1	OC14S-14 Meter Steel Pole, HDG, Single Circuit	20-SDMS-01	Page 35
02	5	Earth Wire Suspension Support	20-SDMS-02	Fig. 5
03	6 Set	Suspension Insulator	15-SDMS-01	Page 23
04	3	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
05	1	Parallel Groove Comp. Connector for 67.44mm2 ACSR/AW (Quail)	20-SDMS-02	Fig. 39
06	2	Machine Bolt, M20x225mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
07	1	Machine Bolt, M20x265mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
08	2	Machine Bolt, M20x285mm With Nut, 2 Flat Washers & 1 Spring Washer	20-SDMS-02	Fig. 15
09	2	Strain Clamp, Straight Line Deadend Type for Quail	20-SDMS-02	Fig. 30
10	6	Strain Clamp, 3 U-Bolts Type for Quail	20-SDMS-02	Fig. 29
11	2	Strain Clamp, straight line Deadend type for Quadruplex Messenger	20-SDMS-02	Fig. 21
12	6	Clevis Eye Extension	20-SDMS-02	Fig. 20
13	10	Anchor Shackle	20-SDMS-02	Drw. 304
14	2	Cable Tie		
15	4	Parallel Groove Comp. Connector for 120mm Quadraplex Messenger	20-SDMS-02	Fig. 49
16	3	Insulating Cap for Quadraplex Messenger	20-SDMS-02	Fig. 50
17	1 Set	Vertical Config. of composite Three Stay Assembly	20-SDMS-02	Fig. 55
18	29M	Stay Wire 7/4, 12mm Dia. HDG Steel UTS 101kN (Min.)	20-SDMS-02	Fig. 55A
19	11M	Stay Wire 7/3-25, 9.8mm Dia. HDG Steel UTS 65kN (Min.)	20-SDMS-02	Fig. 13
20	1	Danger Sign Plate	20-SDMS-02	Fig. 13A
21	1	Danger Sign Mounting Bracket	20-SDMS-02	Fig. 51
22	1.4M	Stainless Steel Strap		
23	2	Stainless Steel Buckle Locking Clamp		
24	10M	Anti-Climbing Device, Barbed Wire		
25	2	Buckle Type, Locking Clip for Barbed Wire		
26	1	Pole Numbering Plate		
		67.44mm2 ACSR/AW, QUAIL		

DRW.11-11B OC14S, 14M, S.C. VERT. CONFIG.OF COMPOSITE MEDIUM & HEAVY ANGLE STRUCTURE WITH STAY 16°-90° FOR QUAIL MAIN & QUAIL TAP